

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

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Claim 1 (Currently Amended) A printable sheet roll cartridge, comprising:

a sheet rolled in a tubular manner to form a sheet roll having a hollow portion therein;

and

a target disposed in the hollow portion, said target ~~being detectable for~~
~~providing~~ configured to provide information ~~as to~~ to identify the type of said sheet roll ~~cartridge~~.

Claim 2 (Previously Amended). The sheet roll cartridge of claim 1, further
comprising a core tube disposed in the hollow portion, wherein the sheet is rolled round the core
tube, and wherein the target is located in the core tube.

Claim 3 (Previously Amended). The sheet roll cartridge of claim 1, wherein the
target is colored.

Claim 4 (Previously Amended). The sheet roll cartridge of claim 1, wherein the
target has an opening formed therein.

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Claim 5 (Previously Amended). The sheet roll cartridge of claim 1, wherein the target is located at one of a plurality of predetermined positions, and wherein the type of the sheet roll cartridge is discriminated by determining in which of said predetermined positions said target is located.

Claim 6 (Previously Amended). The sheet roll cartridge of claim 1, wherein the target has one of a plurality of predetermined colors, and wherein the type of the sheet roll is discriminated by determining which of said predetermined colors said target is colored.

Claim 7 (Withdrawn). A sheet roll discrimination device for discriminating a type of a sheet roll, comprising:

a target position measuring device which measures a position of a target which is disposed in a hollow portion formed in a sheet roll; and

a discrimination device which discriminates a type of the sheet roll in accordance with positional information on the target provided by the target position measuring device.

Claim 8 (Withdrawn). The sheet roll discrimination device of claim 7, wherein the target position measuring device includes an ultrasonic distance measuring device.

Claim 9 (Withdrawn). The sheet roll discrimination device of claim 7, wherein the target position measuring device includes a photoelectric distance measuring device.

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Claim 10 (Withdrawn). The sheet roll discrimination device of claim 7, wherein the target position measuring device includes a contact type distance measuring device.

Claim 11 (Withdrawn). The sheet roll discrimination device of claim 7, wherein the sheet roll comprises a sheet rolled in a tubular manner to form the hollow portion.

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Claim 12 (Withdrawn). The sheet roll discrimination device of claim 11, wherein the sheet roll further comprises a core tube disposed in the hollow portion, wherein the sheet is rolled round the core tube, and wherein the target is located in the core tube.

Claim 13 (Withdrawn). The sheet roll discrimination device of claim 11, wherein the target has an opening formed therein.

Claim 14 (Withdrawn). A sheet roll discrimination device for discriminating a type of a sheet roll, comprising:

a target color measuring device which measures a color of a target which is disposed in a hollow portion formed in a sheet roll; and

a discrimination device which discriminates a type of the sheet roll in accordance with color information on the target provided by the target position measuring device.

Amendment under 37 C.F.R. § 1.116
U.S. Application No. 09/805,184

Claim 15 (Withdrawn). The sheet roll discrimination device of claim 14, wherein the sheet roll comprises a sheet rolled in a tubular manner to form the hollow portion.

Claim 16 (Withdrawn). The sheet roll discrimination device of claim 15, wherein the sheet roll further comprises a core tube disposed in the hollow portion, wherein the sheet is rolled round the core tube, and wherein the target is located in the core tube.

Claim 17 (Withdrawn). The sheet roll discrimination device of claim 15, wherein the target has an opening formed therein.